

ATTACHMENT 1. New abstract, taken from the PCT publication (WO 99/17303; PCT/RU98/00301), with additions and deletions marked.

– ABSTRACT OF THE DISCLOSURE

The present invention relates to an X-ray absorbing material [which] that can be used in medicine as well as in the [production] manufacture of special [protection clothes, protection] protective clothing, protective screens, housings, [protection] protective coatings and isolation materials. In a first embodiment, the material uses as a filler a poly-dispersed [kneading-segregated] mixture, segregated by kneading and containing metallic particles having a size [of] between  $10^{-9}$  and  $10^{-3}$  m, wherein [said] the particles are bonded to the surface of a textile base. The density of the material is defined by the relation  $q_N = (0.01 - .020)q_P$ , where  $q_N$  is filler. In a second embodiment, [this] the invention uses as a filler the above [-mentioned] mixture, although here [though] the particles are surrounded by the volume of a matrix made of a compound that solidifies under atmospheric pressure. The total mass of the poly-dispersed and segregated mixture is defined by the relation  $M = (0.05 - 0.5)m$ , where  $M$  is the total mass of the X-ray absorbing poly-dispersed and segregated filler, while  $m$  is the equivalent mass of the filler material [which] that is equal [by its protective] in protective properties to the mass  $M$ . In a third embodiment, [this] the invention uses as a filler the above [-mentioned] mixture [though] with the particles [are] bonded to an intermediate substrate consisting of a textile base and surrounded by the volume of a matrix. –

ATTACHMENT 2. Amended claims 1-3 with additions and deletions marked.

1. (Amended) An X-ray absorbing material comprising a matrix with a fixed X-ray absorbing metal-containing filler in the form of dispersed particles, wherein said filler material [uses as a filler the segregated by intermixing] is a poly-dispersed mixture that has been segregated by intermixing and that contains [containing] metallic particles having a size [of] between  $10^{-9}$  and  $10^{-3}$  m [while] fixed in a textile base that serves as a matrix; and wherein the particles are bonded to the surface of and embedded in said textile base, and where the density of the X-ray absorbing material as a whole, [at] given that the X-ray absorbing properties [being] are equal to those of the material used for the particles of the X-ray absorbing filler, is defined by the relation:

$$[\rho_m = (0,01 \div 0,20)\rho_p] \quad \underline{\rho_m = (0,01 - 0,20)\rho_p},$$

where  $\rho_m$  is the density of the X-ray absorbing material as a whole, and [while]  $\rho_p$  is the density of the material used for the particles of the X-ray absorbing filler.

2. (Amended) An X-ray absorbing material comprising a matrix with a fixed X-ray absorbing metal-containing filler in the form of dispersed particles, where said filler material [uses as a filler the segregated by intermixing] is a poly-dispersed mixture that has been segregated by intermixing and that contains [containing] metallic particles having a size [of] between  $10^{-9}$  and  $10^{-3}$  m, wherein [the] said particles are surrounded by the

volume of a matrix that is made of at least one compound that solidifies under atmospheric pressure or made of a [the] composition derived from a [on the] base of the same compound, and the total mass of the segregated poly-dispersed mixture consisting of particles of the X-ray absorbing filler [.] is defined by the relation:

$$M = [(0,05 \div 0,5)] (0.05 - 0.5) m,$$

where M is the total mass of the segregated poly-[disperse] dispersed mixture consisting of the X-ray [-] absorbing filler particles, and

[while] m is the equivalent mass of the X-ray absorbing filler material equal [by its] in protective properties to [the] mass M.

3. (Amended) An X-ray absorbing material comprising a matrix with a fixed X-ray absorbing metal-containing filler in the form of dispersed particles, where [the] said filler material [uses as a filler the segregated by intermixing] is a poly-dispersed mixture containing metallic particles having a size [of] between  $10^{-9}$  and  $10^{-3}$  m, wherein [the] said particles are bonded to an intermediate substrate surround by the volume of [a] the matrix formed of at least one compound that solidifies under pressure [or executed of a composition on the base of said compound].